AMENDMENTS TO THE DRAWINGS:

The attached 11 sheets of drawings include only changes to include a figure numeral on sheets corresponding to Figure 1, provide an enlarged copy of Figure 1 in which the sequence is more easily readable, and update the sheet count on all remaining figures, Figure 2 to Figure 5. No new matter is added by this amendment.

REMARKS

Claim Amendments

Claims 27 and 37 have been amended, and claims 1-26, 31-32, and 40-67 are cancelled by this amendment. Accordingly, claims 27-30 and 33-39 are pending.

Applicant reserves the right to pursue the subject matter of the cancelled claims in one or more continuing applications.

Claim 27 has been amended to add the limitations of claim 32, replace the term "it" with "said substrate", and add a final step of generating a result in user readable format. Support for this additional step can be found, for example, in Example 3 and Figure 5. Claims 37 has been amended to remove reference to claims 15 and 22. Accordingly, no new matter has been added.

Objections to the drawings

The drawings were objected to for failing to include a figure numeral on sheets 1-3 of Figure 1 and because the sequence in Figure 1 was allegedly unreadable. With this response Applicant includes 11 replacement sheets, corresponding to Figure 1 to Figure 5, which include figure numerals on all sheets, updated sheet counts, and an enlarged Figure 1 in which the sequence is more clearly readable. Sheets 7-11 are labeled as replacement sheets solely to indicate the updated sheet count. No new matter is added in the replacement sheets. Withdrawal of the objection and reconsideration of the drawings are respectfully requested.

Objections to the specification

The disclosure was objected to for including embedded hyperlinks. The hyperlinks are removed upon entry of this amendment, rendering the objection moot.

Objections to a claim

Claim 37 was objected to for allegedly failing to further limit the subject matter of the previous claim and for referring to claims directed to unelected inventions (i.e., claims 15 and 22). Claim 37 has been amended to remove reference to unelected subject matter and be placed in proper dependent form. Accordingly, withdrawal of the objection and reconsideration of the amended claim are courteously solicited.

Rejections under 35 U.S.C. § 112, second paragraph

Claims 27, 29, 31, and 32 were rejected as allegedly being indefinite. In particular, the Examiner asserts that the terms "some constraints" and "it," recited in claim 27, and the term "prejudiced to the exact spatial conformation," recited in claim 31, render these claims indefinite. Claim 29 was included in the rejection, but no reasoned statement for the rejection was given by the Examiner, or is apparent to the Applicant. Claim 32 was also included in the rejection, presumably for depending from rejected claim 31.

Claim 27 has been amended to replace the term "it" with "said substrate" and to define "some constraints" by the limitations recited in claim 32, while claims 31 and 32 have been cancelled. Withdrawal of the rejection and reconsideration of the claims are respectfully requested.

Rejections under 35 U.S.C. § 101

Claims 27-39 were rejected as allegedly being directed to non-statutory subject matter. Specifically, the Examiner contends that the claimed invention merely manipulates data without transforming an article or physical thing, i.e., does not produce a tangible result.

Applicant has added a final step to the method of claim 27, from which all pending claims directly or indirectly depend, reciting that a result is generated in user readable format, as the Examiner suggested in the Office Action mailed September 11, 2007. Accordingly, Applicant respectfully asks that the rejection be withdrawn and the claims reconsidered.

CONCLUSION

In view of the foregoing amendments and remarks, Applicant respectfully requests reconsideration and reexamination of this application and the timely allowance of the pending claims.

Please grant any extensions of time required to enter this response and charge any additional required fees to our deposit account 06-0916.

Respectfully submitted,

FINNEGAN, HENDERSON, FARABOW,

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Dated: March 11, 2008

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